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Subs	stitute for form 1449A/	B/PTO			Complete if Known	į
				Application Number	10/606,202	:
IN	FORMATI	ON DIS	CLOSURE	Filing Date	June 24, 2003	
S.	TATEMEN'	T BY A	PPLICANT	First Named Inventor	Andrew D. Firlik	:
				Art Unit	3762	:
	(Use as man)	y sheets as i	necessary)	Examiner Name	R. D. Bradford	į
Sheet	1	of	2	Attorney Docket Number	337348046US	

	U.S. PATENT DOCUMENTS									
Examiner	Cite	Document Number	Publication Cate	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant					
nitials*			MW-DD-YYYY	Applicant of Cited Document	Figures Appear					
R.g.		2003-0187490	10-02-2003	Bradford Gliner	<u> </u>					
1		2003-0149457	08-07-2003	Tcheng et al.						
$\top$		2002-0087201	07-04-2002	Andrew Firlik						
		4,431,000 F	<b>22-14-1984</b>	Butler et al.						
$\top$		5,054,906	10-08-1991	WILLIAM G. LYONS						
		5,263,967	11-23-1993	WILLIAM G. LYONS	<u> </u>					
		5,575,813	11-19-1996	DAVID J. EDELL						
		6,366,813	04-02-2002	DiLorenzo						
		6,463,328	10-08-2002	MICHAEL SASHA JOHN						
		6,622,048	09-16-2003	Carla Mann	:					
T		6,687,525	05-09-2002	Rodolfo Llinas						
R.R		6,690,974	06-20-2092	Archer & 2004						

		FOREI	GN PATENT	DOCUMENTS		
Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,	
Initials*	No.	Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>6</sup> (// known)	MM-DD-YYYY	Applicant of Oted Document	Where Relevant Passages or Relevant Figures Appear	T
R.B.		WO-WO 03/043690	05-30-2003	Vertis Neuroscience, Inc.		1:
L		WO-WO 03/082402	03-26-2003	Vertis Neuroscience, Inc.		;
E.A.		EP-EP 0 998 958-A2	10-05-2000	Medtronic, Inc.		1

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. "Applicant's unique citation designation number (optional). <sup>1</sup> See Kinds Codes of USPTO Patent Occuments at <a href="https://www.uspto.ngv">www.uspto.ngv</a> or MPEP 901.04. <sup>2</sup> Enter Office that issued the document, by the two-better code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

		NON PATENT LITERATURE DOCUMENTS	İ
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
R.B.		BENABID, A.L. et al, "Chronic electrical stimulation of the ventralis intermedius nucleus of the thalamus as a treatment of movement disorders," J. Neurosurg., April 1997, 86(4); 737; http://www.ncbi.nlm.nih.gov, [accessed 11/18/2003]	
1		International Search Report for PCT/US03/39077; May 2004; Applicant: Northstar Neuroscience, Inc. (3 pgs)	
		International Search Report for PCT/US03/03678; July 2003; Applicant: Northstar Neuroscience, Inc. (4 pgs)	
		International Search Report for PCT/US03/39078; May 2004; Applicant: Northstar Neuroscience, Inc. (5 pgs)	
		International Search Report for PCT/US02/31112; December 2002; Applicant: Vertis Neuroscience, Inc. (7 pgs)	
		International Search Report for PCT/US02/31127; July 2003; Applicant: Vertis Neuroscience, Inc. (3 pgs)	
8.A.		International Search Report for PCT/US02/31128; September 2002; Applicant: Vertis Neuroscience, Inc. (6 pgs)	

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	Sheet	4	of	10	Attorney Docket No.	33734-8046US	

		<del></del>		U.S. PATENT DOCUMENTS		
Examiner Initials*	Cite	U.S. Patent or Application  Kind C  NUMBER (If kno	Code	Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
R.O.		6,052,624		Mann	04/18/00	
		6,057,847 6		Sever, Jr.	05/02/00	:
		6,058,331		King	05/02/00	
		6,055,456		Gerber	04/25/00	
		6,060,048		Cherksey.	05/09/00	
		6,061,593		Fischell et al.	05/09/00	
		6,066,163		John	05/23/00	
		6,104,956		Naritoku et al.	08/15/00	
		6,104,960		Duysens et al.	08/15/00	
		6,122,548		Starkebaum et al.	09/19/00	
		6,126,657		Edwards et al.	10/03/00	
		6,128,537		Rise	10/03/00	
		6,128,538		Fischell et al.	10/03/00	
		6,134,474		Fischell et al.	10/17/00	
		6,152,143		Edwards	11/28/00	
		6,161,044		Silverstone	12/12/00	
		6,161,045		Fischell et al.	12/12/00	
		6,353,754		Fischell et al.	03/05/02	
		6,354,299		Fischell et al.	03/12/02	
		6,360,122		Fischell et al.	03/19/02	
		6,427,086		Fischell et al.	07/30/02	
J		6,459,936		Fischell et al.	10/01/02	
R.L.		6,466,822		Pless	10/15/02	

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	or 17 2003 B	:) 	DICCLOCURE		Application Number	10/606,202	:
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- [	Sheet	5	of	10	Attorney Docket No.	33734-8046US	

			·		U.S. PATENT DOCUMENTS			
Examiner Initials*	Ci	te	S. Patent or Applicati Kind BER (if kn		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Line Where Relevant Passage Relevant Figures Appe	es or
<b>L</b> .B.		6,4	73,639		Fischell et al.	10/29/02		
1		6,4	80,743		Kirkpatrick et al.	11/12/02		
		60/	325,872		Sheffield	09/28/01	<u> </u>	
		60/	325,978		Gliner	09/28/01		
		10/0	072,700		Firlik	02/07/02		•
R.6.		09/9	978,134		Gliner	10/15/01	-	
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		Fore	eign Patent or Applica	ition		Date of Publication or.	Pages, Columns, Lines,	
Examiner Initials*	Cite No.	Office		nd Code	The state of the s	Filing Date of Cited Document	Where Relevant Passages or Relevant Figures Appear	Т
R.1.		PCT	WO 98/0634	2	Neotonus, Inc.	02/19/98		
		PCT	WO 95/21591		University of Iowa Research Foundation	17/08/95		
		PCT	WO 01/97906		Advanced Bionics Corp	27/12/01	:	
		PCT	WO 94/07564		Cardiac Pacemakers, Inc.	14/04/94		$\Box$
		PCT	WO 87/07511		Zion Educational Foundation	17/12/87		
4.6.		PCT	WO 02/09811		Neuropace, Inc.	07/02/02	2/202	П

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Attorney Docket No. 337348046US

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Sub	stitute for form 1449A/B/F	PTO			Complete If Known	:
				Application Number	10/606,202-Conf. #4373	:
- 11	<b>IFORMATIO</b>	N DI	SCLOSURE	Filing Date	June 24, 2003	
S	<b>TATEMENT</b>	BY /	APPLICANT	First Named Inventor	Andrew D. Firlik	:
				Art Unit	3762	
	(Use as many s	heets as	necessary)	Examiner Name	R. D. Bradford	:
Sheet	1	of	3	Attorney Docket Number	337348046US	-

Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, When	
Initials*	No.	Number-Kind Code <sup>2</sup> (#known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevar Figures Appear	
Q.g.		US-4,474,186	10-02-1984	Ledley et al.	:	
],		US-5,121,754	06-16-1992	Mullett	:	
		US-5,299,569	04-05-1994	Wemicke et al.	:	
		US-5,314,458	05-24-1994	Najafi et al.		
		US-5,406,957	04-18-1995	Tansey	:	
		US-5,522,864	06-04-1996	Wallace et al.		
		US-5,674,251	10-07-1997	Combs et al.	:	
		US-5,772,591	06-30-1998	Cram		
		US-6,035,236	03-07-2000	Jarding et al.		
		US-6,205,360	03-20-2001	Carter et al.	:	
		US-6,221,908	04-24-2001	Kilgard et al.		
		US-6,339,725	01-15-2002	Naritoku et al.	:	
		US-6,473,568	03-07-2002	Kashiyama 10 1000		
		US-6,375,666	04-23-2002	Mische		
	•	US-6,405,079	06-11-2002	Ansarinia	:	
		US-6,418,344	07-09-2002	Rezai et al.	:	
		US-6,487,450	11-26-2002	Chen	:	
		US-6,499,488	12-31-2002	Hunter et al.	:	
		US-6,505,075	01-07-2003	Weiner	:	
		US-6,507,755	01-14-2003	Gozani et al.		
		US-2003/0125772	07-03-2003	Olson et al.	:	
		US-2003/0149457-A1	08-07-2003	Tcheng et al.	· :	
		US-2003/0176901	09-18-2003	May		
		US-2003/0187491	10-02-2003	Greenberg et al.		
		US-6,665,562-A1	12-16-2003	Gluckman et al.		
		US-6,725,094-B2	04-20-2004	Saberski	:	
		US-2004/0138550-A1	07-15-2004	Hartlep et al.		
		US-6,764,498-B2	07-20-2004	Mische	:	
		US-2004/0158298	08-12-2004	Gliner et al.		
		US-6,782,292-A1	08-24-2004	Whitehurst		
V		US-6,795,737-A1	09-21-2004	Gielen et al.		
P.B.		US-6,810,286-B2	10-26-2004	Donovan et al.		
Examine: Signature	1	Bradford		Date Considered	10/28/05	

Attorney Docket No. 337348046US

PTO/SB/08a/b (07-05)
Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE aspond to a collection of information unless it contains a valid OMB control number. Under the Peperwork Reduction Act of 1995, no persons are required to respond to a code

Substitute for form 1449A/B/PTO				Complete if Known		
				Application Number	10/606,202-Conf. #4373	
IN	IFORMATIC	ON DISC	LOSURE	Filing Date	June 24, 2003	
STATEMENT BY APPLICANT				First Named Inventor	Andrew D. Firlik	
				Art Unit	3762	
	(Use as many sheets as necessary)			Examiner Name	R. D. Bradford	
Sheet	1	of	2	Attorney Docket Number	337348046US	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Occurrent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code <sup>2</sup> ( if known)				
AD		US-2,721,316	10-18-1955	Shaw		
1		US-3,628,193	12-21-1971	Collins		
		US-2002/0077670-A1	06-20-2002	Archer et al.		
		US-2002/0091419-A1	07-11-2002	Firlik et al.		
AD		US-6,839,594-A1	19-31-2002	Cohen et al. 1/100	7	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.¹	Foreign Patent Occurrent Country Code* (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	7*
44		EP-1180056	11-12-2003	Exogen, Inc.		T
		DE 19750043	05-20-1999	Bartha et al.		T

"EXAMINER: Initial if reference considered, whether or not cliation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. "CITE NO.: Those application(s) which are marked with an alogic exterials (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filled after June 30, 2003 or is available in the IFW. "Applicant's unique citation designation number (optional). "See Kinds Codes of USPTO Patent Documents at <a href="https://www.usoto.gov/">https://www.usoto.gov/</a> or MPEP 901.04. "Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). "For Japanese potent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. "Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible." Applicant is to place a check mark here if English language Translation is attached.

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	79
H		BARR, Deborah et al., "Induction and Reversal of Long-Term Potentiation by Lowand High- Intensity Theta Pattern Stimulation," The Journal of Neuroscience, 15(7): pp. 5402-5410 (July 1995)	
		DING, Yuemin et al., "Neural Plasticity After Spinal Cord Injury," Current Pharmaceutical Design Vol. 11, No. 11, pp: 1441-1450, Abstract Only-1 page (April 2005)	
		Cytokines Web Clinical Significance. Cytokines Web, 2 pages. [Retrieved on 9-2-2005]. Retrieved from the Internet: <url: cgf="" cgf_database="" cmbi.bjmu.edu.cn="" cmbidata="" cytweb="" http:="" index.html="" roles=""></url:>	
		DUNCAN, Pamela W. et al., "Defining post-stroke recovery: implications for design and interpretation of drug trials," Neuropharmacology Vol. 39, pp. 835-841 (2000)	
N	-	FREGNI, Felipe et al., "Anodal Transcranial Direct Current Stimulation of Preforntal Cortex Enhances Working Memery," Experimental Brain Research Vol. 165, No. 1, pp: 23-30, (September 2005)	

Examiner Signature	m al	Date Considered	5/29/06
<u> </u>			

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Express Mail No. EV784674710US

Attorney Docket No. 337348046US

PTO/SB/08a/b (07-05)
Approved for use through 07/31/2008. OMB 0651-0031
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Substitute for form 1449A/B/PTO	Complete if Known		
	Application Number	10/606,202-Conf. #4373	
INFORMATION DISCLOSURE	Filing Date	June 24, 2003	
STATEMENT BY APPLICANT	First Named Inventor	Andrew D. Firlik	
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(Use as many sheets as necessary) R. D. Bradford Examiner Name Sheet 1 2 of 337348046US Attorney Docket Number

	U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.'	Document Number Number-Kind Code <sup>2</sup> ( if known)	Publication Data MM-OD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
MA		US-2003/0074032-A1	04-17-2003	Gliner			
		US-2003/0078633-A1	04-24-2003	Firlik et al.			
		US-2003/0088274-A1	05-08-2003	Gliner et al.			
		US-2003/0097161-A1	05-22-2003	Firlik et al.			
		US-2004/0073270-A1	04-15-2004	Firlik et al.			
		US-2004/0102828-A1	05-27-2004	Lowry et al.			
		US-2004/0111127-A1	06-10-2004	Gliner et al.			
		US-2004/0176831-A1	09-09-2004	Gliner et al.			
		US-2004/0181263-A1	09-16-2004	Balzer et al.			
		US-2004/0215287-A1	10-28-2004	Swoyer et al.			
		US-2004/0249422-A1	12-09-2004	Gliner et al.			
		US-2005/0021105-A1	01-27-2005	Firlik et al.			
		US-2005/0021106-A1	01-27-2005	Firlik et al.			
		US-2005/0021107-A1	01-27-2005	Firlik et al.			
		US-2005/0021118-A1	01-27-2005	Genau et al.			
		US-2005/0033378-A1	02-10-2005	Sheffield et al.			
		US-2005/0070971-A1	03-31-2005	Fowler et al.			
		US-2005/0075679-A1	04-07-2005	Gliner et al.			
		US-2005/0075680-A1	04-07-2005	Lowry et al.			
		US-2006/0015153-A1	01-19-2006	Gliner et al.			
		US-6,230,049	05-08-2001	Fischell et al.			
		US-6,236,892	05-22-2001	Feler			
		US-6,633,780	10-14-2003	Berger			
		US-6,892,097-B2	05-10-2005	Holsheimer			
		US-6,959,215-B2	06-10-2004	Gliner et al. 10/1005			
		US-6,990,377-B2	91-08-2005	Gliner et al.	1/2006		
		US-7,010,351-B2	07-04-2002	Firlik et al.	31206		
M		US-7,024,247-B2	01-29-2004	Gliner et al.	412006		

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